Refine Search

Search Results -

Terms	Documents
L7 NOT L8	34

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L9

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Wednesday, March 09, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=NO; OP=OR			
L9	L7 NOT l8	34	L9
L8	L7 AND l6	8	L8
L7	L2 AND rules.ab.	42	L7
L6	L2 AND rules.ti.	8	L6
L5	L4 aND quadrant	13	L5
L4	L2 AND condition	166	L4
L3	L2 AND IF	0	L3
L2	L1 AND (business ADJ rules)	328	L2
L1	rules AND ((object-oriented) or (object ADJ oriented))	3814	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L4 aND quadrant	13

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L5

Refine Search

Recall Text Clear Interrupt

Search History

DATE: Wednesday, March 09, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=NO; OP=OR			
L5	L4 aND quadrant	13	L5
L4	L2 AND condition	166	L4
L3	L2 AND IF	0	L3
L2	L1 AND (business ADJ rules)	328	L2
L1	rules AND ((object-oriented) or (object ADJ oriented))	3814	L1

END OF SEARCH HISTORY

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 13 of 13 returned.

☐ 1. Document ID: US 6754181 B1

L5: Entry 1 of 13 File: USPT Jun 22, 2004

US-PAT-NO: 6754181
DOCUMENT-IDENTIFIER: US 6754181 B1

TITLE: System and method for a directory service supporting a hybrid communication system architecture

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elliott; Isaac K.	Colorado Springs	CO		
Krishnawswamy; Sridhar	Cedar Rapid	IA		

US-CL-CURRENT: 370/252; 370/352, 370/356

ABSTRACT:

Telephone calls, data and other multimedia information is routed through a hybrid network which includes transfer of information across the internet utilizing telephony routing information and internet protocol address information. A media order entry captures complete user profile information for a user. This profile information is utilized by the system throughout the media experience for routing, billing, monitoring, reporting and other media control functions. Users can manage more aspects of a network than previously possible, and control network activities from a central site. A directory service that supports a hybrid communication system architecture is provided for routing traffic over the hybrid network and the internet.

12 Claims, 191 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 133

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 6731625 B1

L5: Entry 2 of 13 File: USPT May 4, 2004

US-PAT-NO: 6731625

DOCUMENT-IDENTIFIER: US 6731625 B1

TITLE: System, method and article of manufacture for a call back architecture in a hybrid network with support for internet telephony

DATE-ISSUED: May 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eastep; Guido M.	McKenney	TX		
Litzenberger; Paul	Wilie	TX		
Orebaugh; Shannon R.	Herndon	VA		

US-CL-CURRENT: 370/352; 370/389, 370/392, 379/114.01, 379/90.01, 379/93.07

ABSTRACT:

A callback system is created utilizing a hybrid telecommunication system including a switched communication network and a packet transmission network. A call parameter database is stored in a memory. A call is received on the system. The call parameter database is accessed to determine at least one call parameter. The call is routed over the switched communication network and the packet transmission network based on the at least one call parameter. A plurality of service engines is provided, each configured to execute desired service logic utilizing expert system.

39 Claims, 188 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 187

☐ 3. Document ID: US 6718535 B1

L5: Entry 3 of 13 File: USPT Apr 6, 2004

US-PAT-NO: 6718535
DOCUMENT-IDENTIFIER: US 6718535 B1
**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for an activity framework design in an e-commerce based environment

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/101; 717/120

ABSTRACT:

A system and method are provided for providing an activity framework. First, a plurality of sub-activities are created which each include sub-activity logic adapted to generate an output based on an input received from a user upon execution. Second, a plurality of activities are defined which each execute the sub-activities in a unique manner upon being selected for accomplishing a goal associated with the activity. Selection of one of the activities is allowed by receiving user indicia. An interface is depicted for allowing receipt of the input and display of the output during execution of the sub-activities associated with the selected activity.

24 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 4. Document ID: US 6704873 B1

L5: Entry 4 of 13 File: USPT Mar 9, 2004

US-PAT-NO: 6704873
DOCUMENT-IDENTIFIER: US 6704873 B1

TITLE: Secure gateway interconnection in an e-commerce based environment

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 713/201; 709/223, 709/249

ABSTRACT:

A system and method of providing a global internetworking gateway architecture in an e-commerce environment are provided. A plurality of gateways each situated in a distinct geographic location are coupled to an internet. A wide area network, separate from the internet, is coupled to each of the gateways for providing communication between the wide area network and the internet. Coupled to the wide area network is a central database for providing a central storage for data used in e-commerce carried out over the internet. In one embodiment, at least one of the gateways includes at least one screening router coupled to the internet service provider, at least one firewall connected to the screening router, and a choker router coupled between the wide area network and the firewall.

16 Claims, 179 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 111

☐ 5. Document ID: US 6633878 B1

L5: Entry 5 of 13 File: USPT Oct 14, 2003

US-PAT-NO: 6633878
DOCUMENT-IDENTIFIER: US 6633878 B1

TITLE: Initializing an ecommerce database framework

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/100; 707/1, 707/102, 707/205

ABSTRACT:

A system, method and article of manufacture are provided for initializing a database used with an issue tracker. The issue tracker receives information relating to a plurality of issues from a plurality of users, displays the information relating to the issues, and allows the browsing of the information relating to each of the issues. To initialize the database, the information relating to the issues is stored in a first database. A second database is also provided that stores tables including: a plurality of user interfaces; and/or application logic for accessing the information in the first database. The tables of the second database are reconfigured upon migrating the first database from a first folder to a second folder.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 6. Document ID: US 6609128 B1

L5: Entry 6 of 13 File: USPT Aug 19, 2003

US-PAT-NO: 6609128
DOCUMENT-IDENTIFIER: US 6609128 B1

TITLE: Codes table framework design in an E-commerce architecture

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/10; 707/200

ABSTRACT:

A system, method and article of manufacture are provided for maintaining application consistency. First, a table of codes and associated text phrases are provided. Such table of codes is stored on a local storage medium within an e-commerce computer architecture. Next, the table of codes is accessed on the local storage medium within the e-commerce computer architecture. One of the text phrases is subsequently retrieved by selecting a corresponding one of the codes of the table. During operation, modification of the text phrases associated with each of the codes of the table is permitted. A plurality of services are executed, including retrieving a single one of the text phrases, retrieving all of the text phrases in response to a single command, updating a single code and text phrase combination, updating all of the code and text phrase combinations, naming the table, adding a new code and text phrase combination, removing one of the code and text phrase combination, and adding another table.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 7. Document ID: US 6601233 B1

L5: Entry 7 of 13 File: USPT Jul 29, 2003

US-PAT-NO: 6601233
DOCUMENT-IDENTIFIER: US 6601233 B1

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of logical business components in a business are first defined with each business component having a plurality of capabilities. Next, functional interrelationships are identified between the logical business components. Code modules are then generated to carry out the capabilities of the logical business components and the functional interrelationships between the logical business components, wherein the code modules represent a transformation of the logical business components to their physical implementation, while ensuring the capabilities that are carried out by each code module are essentially unique to the logical business component associated with the code module. Next, the functional aspects of the code modules and the functional relationships of the code modules are tested. The code modules

are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 8. Document ID: US 6523027 B1

L5: Entry 8 of 13 File: USPT Feb 18, 2003

US-PAT-NO: 6523027
DOCUMENT-IDENTIFIER: US 6523027 B1
**** See image for Certificate of Correction ****

TITLE: Interfacing servers in a Java based e-commerce architecture

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/4; 707/10, 707/100

ABSTRACT:

A system, method and article of manufacture are provided for providing an interface between a first server and a second server with a proxy component situated therebetween. Initially, a request for a business object is identified by an application on the first server. The first server is then connected to the second server. Next, selection criteria from the first server is transmitted to the second server. In response to the selection criteria, the first server receives a first recordset and a second recordset from the second server. Business data is included in the first recordset and result codes are included in the second recordset. The first and second recordsets are mapped to the business object and the business object is sent to the application on the first server.

18 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 9. Document ID: US 6335927 B1

L5: Entry 9 of 13 File: USPT Jan 1, 2002

US-PAT-NO: 6335927
DOCUMENT-IDENTIFIER: US 6335927 B1

TITLE: System and method for providing requested quality of service in a hybrid network

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elliott; Isaac K.	Colorado Springs	CO		
Reynolds; Tim E.	Iowa City	IA		
Krishnaswamy; Sridhar	Cedar Rapid	IA		

US-CL-CURRENT: 370/352

ABSTRACT:

Telephone calls, data and other multimedia information is routed through a hybrid network which includes transfer of information across the internet. A media order entry captures complete user profile information for a user. This profile information is utilized by the system throughout the media experience for routing, billing, monitoring, reporting and other media control functions. Users can manage more aspects of a network than previously possible, and control network activities from a central site. The hybrid network also contains logic for responding to requests for quality of service and reserving the resources to provide the requested services.

16 Claims, 191 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 133

☐ 10. Document ID: US 6092197 A

L5: Entry 10 of 13 File: USPT Jul 18, 2000

US-PAT-NO: 6092197
DOCUMENT-IDENTIFIER: US 6092197 A

TITLE: System and method for the secure discovery, exploitation and publication of information

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coueignoux; Philippe	Lexington	MA		

US-CL-CURRENT: 713/200; 709/201

ABSTRACT:

System and method of discovering and exploiting information such as private or

confidential facts from a user, while securing the information from unauthorized publication includes, a sender having a processing module transmitting a request for publication of information about a user; an agent in communication with the sender receiving the request for the information, and a user in communication with the agent responding to prompts initiated by the agent. The prompts request the user to reveal facts relating to the information desired by the sender, and provide indicia relating to authorization for publication of the disclosed facts to the sender. The agent discovers the facts and determines whether such facts are to be made available to the sender. The agent can include a memory module, and a processing module such as a rule engine using dialog classes, for communicating with the sender and user, determining whether the indicia of authorization for the facts permits publication of the facts to the sender, and publishing the facts to the sender when said indicia represents a grant of authorization for publication. The agent can exploit all the facts it has discovered, whether authorized or not for publication, to personalize its communication with the user.

38 Claims, 27 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

☐ 11. Document ID: US 5999525 A

L5: Entry 11 of 13 File: USPT Dec 7, 1999

US-PAT-NO: 5999525
DOCUMENT-IDENTIFIER: US 5999525 A

TITLE: Method for video telephony over a hybrid network

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krishnaswamy; Sridhar	Cedar Rapids	IA		
Elliott; Isaac K.	Colorado Springs	CO		
Reynolds; Tim E.	Iowa City	IA		
Forgy; Glen A.	Iowa City	IA		
Solbrig; Erin M.	Cedar Rapids	IA		

US-CL-CURRENT: 370/352; 370/389, 370/392, 379/114.15, 379/90.01, 379/93.07

ABSTRACT:

Telephone calls, data and other multimedia information including video, audio and data is routed through a switched network which includes transfer of information across the internet. Users can transmit video, audio and data communications of designated quality over the internet to other registered video telephony users. Users can manage more aspects of a network than previously possible, and control network activities from a central site.

30 Claims, 190 Drawing figures

Exemplary Claim Number: 11
Number of Drawing Sheets: 134

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 12. Document ID: US 5867495 A

L5: Entry 12 of 13 File: USPT Feb 2, 1999

US-PAT-NO: 5867495
DOCUMENT-IDENTIFIER: US 5867495 A

TITLE: System, method and article of manufacture for communications utilizing calling, plans in a hybrid network

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elliott; Isaac K.	Colorado Springs	CO		
Krishnaswamy; Sridhar	Cedar Rapids	IA		

US-CL-CURRENT: 370/352; 370/389, 370/392, 379/11, 379/115.01, 379/90.01, 379/93.07

ABSTRACT:

Telephone calls, data and other multimedia information is routed through a hybrid network which includes transfer of information across the internet utilizing telephony routing information and internet protocol address information. A media order entry captures complete user profile information for a user. This profile information is utilized by the system throughout the media experience for routing, billing, monitoring, reporting and other media control functions. Users can manage more aspects of a network than previously possible, and control network activities from a central site. Calling card access is provided for users and supports typical calls as well as media transfers over the hybrid network including over the internet.

27 Claims, 190 Drawing figures
Exemplary Claim Number: 19
Number of Drawing Sheets: 132

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 13. Document ID: US 5867494 A

L5: Entry 13 of 13 File: USPT Feb 2, 1999

US-PAT-NO: 5867494
DOCUMENT-IDENTIFIER: US 5867494 A

TITLE: System, method and article of manufacture with integrated video conferencing

billing in a communication system architecture

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krishnaswamy; Sridhar	Cedar Rapids	IA		
Elliott; Isaac K.	Colorado Springs	CO		
Reynolds; Tim E.	Iowa City	IA		
Forgy; Glen A.	Iowa City	IA		
Solbrig; Erin M.	Cedar Rapids	IA		

US-CL-CURRENT: 370/352; 370/389, 370/392, 379/114.15, 379/90.01, 379/93.07

ABSTRACT:

Telephone calls, data and other multimedia information including video, audio and data is routed through a switched network which includes transfer of information across the internet. Users can participate in video conference calls in which each participant can simultaneously view the video from each other participant and hear the mixed audio from all participants. Users can also share data and documents with other video conference participants. Users can manage more aspects of a network than previously possible, and control network activities from a central site. Billing of the conference call is accomplished utilizing a billing detail record to capture events associated with a call as they occur and debit the appropriate bill.

20 Claims, 192 Drawing figures
Exemplary Claim Number: 7
Number of Drawing Sheets: 134

Print Request Result(s)

Printer Name: ran_5c70_gbrhptr
Printer Location: ran__5c70
Number of Copies Printed : 1

- US006523027: Ok
- US005867494: Ok
- US006601233: Ok
- US006609128: Ok

OK Back to List

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6745382 B1

L8: Entry 1 of 8 File: USPT Jun 1, 2004

US-PAT-NO: 6745382
DOCUMENT-IDENTIFIER: US 6745382 B1

TITLE: CORBA wrappers for rules automation technology

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zothner; Eric	Apex	NC		

US-CL-CURRENT: 717/107

ABSTRACT:

A method, system, and software product in which wrappers for rules automation technology are provided. Business rules, business objects, and at least one object agent, representing a corresponding one of the business objects, are provided. The object agent is inserted into a business rules agenda for executing the business rules so that the business rules are directly applied to the object agent, and thereby, are indirectly applied to the corresponding business object. This approach advantageously allows unsophisticated users of rules automation technology to interface with complex business objects and prevents an exception from destroying a business transaction.

24 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw D

☐ 2. Document ID: US 6745381 B1

L8: Entry 2 of 8 File: USPT Jun 1, 2004

US-PAT-NO: 6745381
DOCUMENT-IDENTIFIER: US 6745381 B1

TITLE: Method and apparatus for annotating static object models with business rules

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnebuske; David Lars	Georgetown	TX		
McKee; Barbara Jane Alspach	Austin	TX		

US-CL-CURRENT: 717/100

ABSTRACT:

A method and apparatus for providing a methodology and notation which enables an explicit distinction between those features of an object-oriented object model that are intended to be easily changed due to changing business needs, from those features which are fundamental to the object models. The methodology does this during the modeling process by capturing decisions to allow for business-driven variability as explicit diagram annotations called Control Points. The business variable portions of the system of interacting objects are simultaneously captured as objects called Business Rules.

12 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☑ 3. Document ID: US 6532465 B2

L8: Entry 3 of 8 File: USPT Mar 11, 2003

US-PAT-NO: 6532465
DOCUMENT-IDENTIFIER: US 6532465 B2

TITLE: Operational system for operating on client defined rules

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartley; Bruce	Elbert	CO	80106	
Ricotta; Frank	Colorado Springs	CO	80919	
Vanderwall; Jim	Denver	CO	80218	
Locke; Tony	Colorado Springs	CO	80920	
Perkins; Tony	Northglenn	CO	80234	
Brown; Rodney	Highlands Ranch	CO	80126	

US-CL-CURRENT: 707/10; 718/1

ABSTRACT:

The disclosure includes a computational system implemented with respect to a novel

computational architecture for operating an externally-defined data based on client-defined rules. In one of the implementations, the architecture is utilized in a billing and customer service program. The architecture includes a engine unit which includes a number of processing modules which internally operate on generic data units that are independent of the particular application. A metadata engine receives externally-defined data and relates the externally-defined data and the relates the externally-defined data to the generic data units for use for the engine unit. A rules-based engine provides to the engine unit information related to the client defined rules. In this manner, the engine unit can be reused in a large part in a variety of different environments.

35 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

☐ 4. Document ID: US 6473748 B1

L8: Entry 4 of 8 File: USPT Oct 29, 2002

US-PAT-NO: 6473748
DOCUMENT-IDENTIFIER: US 6473748 B1

TITLE: System for implementing rules

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Archer; Jack L.	Yorba Linda	CA		

US-CL-CURRENT: 706/45; 706/46, 706/47

ABSTRACT:

A method, system and computer program product for implementing rules. More specifically, a method, system and computer program product for implementing rules is developed by separating business rules from application logic. This architecture effects the implementation of software business rules in a single location, for sharing across software applications as needed. Software business rules are created and maintained by business experts directly, rather than requiring programmers to translate the rules to software code. Thus, programmers are free to concentrate on programming issues and software business rules (new logic, not just new values/ranges) may be added or changes may be made to existing rules without modifying the software applications which use the business rules. Software business rules are written to implement business logic, which does not perform any kind of computer systems manipulation to obtain the data that it works on, nor does it include any logic to manipulate the underlying computer system in general such as memory allocations and network communications, etc. In this architecture, software application logic is a purely computer system operational piece of logic such as, for example, data access, inter-process communications, screen rendering, network communications or data base access, or any type of computer systems manipulation, and is not included in the same physical software module as business logic. Pure

application logic, and range checking, are included in software application modules, which are distinct from the software modules which include business logic.

23 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 5. Document ID: US 6341369 B1

L8: Entry 5 of 8 File: USPT Jan 22, 2002

US-PAT-NO: 6341369
DOCUMENT-IDENTIFIER: US 6341369 B1

TITLE: Method and data processing system for specifying and applying rules to classification-based decision points in an application system

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Degenaro; Louis Ralph	White Plains	NY		
Ehnebuske; David Lars	Georgetown	TX		
McKee; Barbara Jane Alspach	Austin	TX		
Rasmus; Kevin Paul	Bloomington	IL		
Rouvellou; Isabelle Marie Catherine	New York City	NY		

US-CL-CURRENT: 717/117; 706/47

ABSTRACT:

A method and apparatus for specifying, applying and managing rules used by an application in a data processing system are provided. A set of classification categories are specified, each classification category representing a different purpose of classification. A set of classifications are specified, each classification representing a possible outcome of an act of classifying. A set of control point names are specified, each name being associated with one or more control points in the application. A set of classification rules are specified, each such rule being associated with a classification category and said rule being adapted to analyze the state of the application and classify it by returning one or more classifications. A set of decision rules are specified, each such rule being associated with a classification and a control point name, said rule being adapted to affect the behavior of the application by calculating a value or making a decision. A set of control points is specified and built into the application at those points in the application flow at which variability of behavior controlled by rules is desired, each such control point being associated with a control point name and one or more classification categories. During the running of the application, when a control point as described above is encountered, the control point's associated classification categories are used to select that set of classification rules associated with any of the classification categories and the selected classification rules are then run.

38 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☐ 6. Document ID: US 6272482 B1

L8: Entry 6 of 8 File: USPT Aug 7, 2001

US-PAT-NO: 6272482
DOCUMENT-IDENTIFIER: US 6272482 B1

TITLE: Managing business rules using jurisdictions

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKee; Barbara Jane Alspach	Austin	TX		
Ehnebuske; David Lars	Georgetown	TX		

US-CL-CURRENT: 706/47; 705/7

ABSTRACT:

A method of managing a set of rules used by a computer program, by defining jurisdictions adapted to exert authority over a decision to be made by the program, creating at least one control point for the decision, and mapping rules from the jurisdictions to the control point. Multiple control points may be created for a given decision, with different sets of rules being mapped to the respective control points. The business management system of the present invention preferably allows jurisdictions to assert exclusivity over decisions, and assigns different priority values to each jurisdiction for a given control point. Management of the rules is simplified by allowing quick identification of a subset of rules from the jurisdictions that apply to a given control point, and by further allowing identification of one or more rules in the subset of the rules that are affected by a change pertaining to the control point.

15 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☐ 7. Document ID: US 6016477 A

L8: Entry 7 of 8 File: USPT Jan 18, 2000

US-PAT-NO: 6016477
DOCUMENT-IDENTIFIER: US 6016477 A

TITLE: Method and apparatus for identifying applicable business rules

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnebuske; David Lars	Georgetown	TX		
McKee; Barbara Jane Alspach	Austin	TX		

US-CL-CURRENT: 705/7; 706/11, 706/60

ABSTRACT:

A method and apparatus for identifying decision points in Business Objects and classifying business rules that are applicable to the decision points. Business Objects are created which are decorated with business rules, either manually or programmatically. Control Points are used to represent the named decision points or triggers within the behavior of the Business Objects. The Control Points are visually exposed to business analysts to allow the examination of the business rules attached to the various Control Points. The business analysts are permitted to manually attach or detach business rules associated with the Control Points. A system can programmatically decide which rules to attach to a Control Point based on execution context.

12 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

☐ 8. Document ID: US 5802508 A

L8: Entry 8 of 8 File: USPT Sep 1, 1998

US-PAT-NO: 5802508
DOCUMENT-IDENTIFIER: US 5802508 A

TITLE: Reasoning with rules in a multiple inheritance semantic network with exceptions

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morgenstern; Leora	New York	NY		

US-CL-CURRENT: 706/55; 706/48

ABSTRACT:

A new data structure describes an inheritance network with exceptions, augmented with rules attached to nodes in the network, a background context of rules and

information, and an optional prioritization of links in the network. A process that determines which rules apply to classes (nodes) in the taxonomy exploits the structure of the network, in particular specificity and path prioritization, to get preferred maximally consistent subsets of rules that apply at specified nodes.

37 Claims, 34 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 32

Terms	Documents
L7 AND L6	8

Print Request Result(s)

Printer Name: ran_5c70_gbrhptr
Printer Location: ran__5c70
Number of Copies Printed : 1

- US006016477: Ok
- US006341369: Ok
- US006473748: Ok
- US006532465: Ok

OK Back to List

Print Request Result(s)

Printer Name: ran_5c18_gbrgptr
Printer Location: ran__5c18
Number of Copies Printed : 1

- US006662164: Ok
- US006249905: Ok
- US006816702: Ok
- US006199047: Ok
- US006389588: Ok
- US006789252: Ok
- US006850922: Ok
- US005870719: Ok
- US006810429: Ok
- US006067531: Ok
- US006330711: Ok
- US006751657: Ok
- US006338069: Ok
- US006775658: Ok
- US005745901: Ok
- US006148290: Ok
- US006453356: Ok
- US006456986: Ok

OK Back to List

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 34 of 34 returned.

☑ 1. Document ID: US 6850922 B1

L9: Entry 1 of 34 File: USPT Feb 1, 2005

US-PAT-NO: 6850922
DOCUMENT-IDENTIFIER: US 6850922 B1

TITLE: Business logic support

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wason; James Richard	Tuxedo	NY		

US-CL-CURRENT: 706/47

ABSTRACT:

A mechanism to isolate and externalize the definition of business rules, and to support them using visual programming techniques (special editors for Java beans). This means that the rules can be set up by a business expert who does not need specialized programming skills. In addition, the Java beans are preferably implemented as dynamic Java beans.

14 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☑ 2. Document ID: US 6816702 B2

L9: Entry 2 of 34 File: USPT Nov 9, 2004

US-PAT-NO: 6816702
DOCUMENT-IDENTIFIER: US 6816702 B2

TITLE: Consolidated online assessment system

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuntz; David L.	Yardley	PA		
Cody; Preston	Lawrenceville	NJ		
Ivanov; Georgi Stefanov	Ringoes	NJ		
Perlow; John E.	Brick	NJ		

US-CL-CURRENT: 434/353; 434/322, 434/323

ABSTRACT:

A Consolidated Online Assessment System (COLA System) that creates, manipulates, and distributes an objected-oriented paradigm that represents the scoring and related activities as a unified and integrated family of loosely coupled objects, most notably a "Case" representing a state-machine that replaces the constructed response from the test taker as the unit of work. The Scoring Model and associated Properties that encapsulate the business rules associated with what actions are appropriate or required for a unit of work and the Responses to the unit of work which represent the test-taker-contributed content (e.g., essays or other text-based responses, audio responses, digitized video responses, scanned images, diagrams, lessons plans, etc.) and ties that content to its creator are linked to a Distinct Scorable Unit (DSU) which represents a tree-based mechanism that connects and provides inheritability for the other primary system objects. The abstraction of the DSU allows the system to distinguish between the constructed response as test-taker contributed content and the constructed response as the carrier of state or status information as it passes through the assessment process.

28 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 22

☑ 3. Document ID: US 6810429 B1

L9: Entry 3 of 34 File: USPT Oct 26, 2004

US-PAT-NO: 6810429
DOCUMENT-IDENTIFIER: US 6810429 B1

TITLE: Enterprise integration system

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walsh; Thomas C.	Cambridge	MA		
Young; Michael J.	Boxborough	MA		
DiCelie; Joseph J.	Boylston	MA		
Wong; David W. H.	Boxborough	MA		
Esenther; Alan W.	Ashland	MA		

US-CL-CURRENT: 709/246; 719/328

ABSTRACT:

An enterprise integration system is coupled to a number of legacy data sources. The data sources each use different data formats and different access methods. The integration system includes a back-end interface configured to convert input data source information to input XML documents and to convert output XML document to output data source information. A front-end interface converts the output XML documents to output HTML forms and the input HTML forms to the XML documents. A middle tier includes a rules engine and a rules database. Design tools are used to define the conversion and the XML documents. A network couples the back-end interface, the front-end interface, the middle tier, the design tools, and the data sources. Mobile agents are configured to communicate the XML documents over the network and to process the XML documents according to the rules.

21 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

☑ 4. Document ID: US 6789252 B1

L9: Entry 4 of 34 File: USPT Sep 7, 2004

US-PAT-NO: 6789252
DOCUMENT-IDENTIFIER: US 6789252 B1

TITLE: Building business objects and business software applications using dynamic object definitions of ingrediential objects

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Miles D.	Phoenix	AZ	85016	
Solar, Jr.; Richard J.	Phoenix	AZ	85018	

US-CL-CURRENT: 717/100; 717/103

ABSTRACT:

A method and system are provided for providing an open and extensible object definition framework that manages business object definitions as specifications. This framework may be used to dynamically define any object that is to be processed by a computer. Objects can include Properties, Classifications, Knowledge, Business Objects, and Business Rules to name a few. Some examples of typical Business Objects include: business and social entities; locations, including spaces, places and channels; activities, including events and processes; items, including products and services; and business records, including orders and other forms of demand, inventory, jobs, deliverables, statements, transaction history et. al. The method and system may be used to define any object that is to be processed by a computer. Objects can include Properties, Classifications, Knowledge, Business Objects, and Business Rules to name a few. Typical Business Objects include: Business and social entities; Locations including spaces, places, and channels; Activity including

events and processes; Items including products and services; Business Records including orders and other forms of demand, inventory, jobs, deliverables, statements, transaction history et. al.

237 Claims, 127 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☑ 5. Document ID: US 6775658 B1

L9: Entry 5 of 34 File: USPT Aug 10, 2004

US-PAT-NO: 6775658
DOCUMENT-IDENTIFIER: US 6775658 B1

TITLE: Notification by business rule trigger control

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zothner; Eric R.	Apex	NC		

US-CL-CURRENT: 706/47; 705/28, 705/412, 707/100, 709/202, 709/203

ABSTRACT:

An approach for providing notification services using rules-based technology is disclosed. A business rule manager module maps the business rules to business triggers, in which any pre-defined action can be performed based on the rule execution. Business rule triggers map a set of object life cycle states or business processes to set(s) of business rules; these business rules are mapped to trigger conditions. Notifications are then mapped to the business triggers such that the appropriate information can be sent to the recipients according to the business conditions or business rule actions.

9 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☑ 6. Document ID: US 6751657 B1

L9: Entry 6 of 34 File: USPT Jun 15, 2004

US-PAT-NO: 6751657
DOCUMENT-IDENTIFIER: US 6751657 B1

TITLE: System and method for notification subscription filtering based on user role

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zothner; Eric R.	Apex	NC		

US-CL-CURRENT: 709/220; 709/203, 709/206, 709/207, 709/238, 719/318

ABSTRACT:

An approach for providing notification services using rules-based technology is disclosed. A Business Rules Manager module maps the business rules to business triggers, in which any pre-defined action can be performed based on the rule execution. Business rule triggers map a set of object life cycle states or business processes to set(s) of business rules; these business rules are mapped to trigger conditions. Notifications are then mapped to the business triggers (i.e., notification trigger points) such that the appropriate information can be sent to the recipients according to the business conditions or business rule actions. The users subscribe to the notification trigger points based upon the users' role, as specified in the user profiles. A user supplied subscription filter criteria permits filtering of the notifications. However, a global user override attribute associated with a notification trigger point can bypass the subscription filter criteria.

23 Claims, 15 Drawing figures
Exemplary Claim Number: 12
Number of Drawing Sheets: 15

☑ 7. Document ID: US 6662164 B1

L9: Entry 7 of 34 File: USPT Dec 9, 2003

US-PAT-NO: 6662164
DOCUMENT-IDENTIFIER: US 6662164 B1

TITLE: Method and apparatus for determining commission

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koppelman; Joshua	Austin	TX		
Tellefsen; Jens	Austin	TX		

US-CL-CURRENT: 705/14; 705/11

ABSTRACT:

The invention provides for a method and apparatus for determining the commission to be paid to a sales representative or sales team. Whenever a sale occurs, a Transaction describing the sale is created and inputted into the Commission system of one embodiment of the invention. Based on a set of Allocation Rules that specify the credit an individual is to receive from a Transaction, the Transactions are converted into several Allocations for individual Sales Representatives or Sales Teams. One or more Quotas specify a target or goal that must be reached to earn commission for each Sales Team. A Quota State indicates the current performance of a Sales Representative with respect to a particular Quota within a particular time frame. The Quotas are used to convert the Allocations/Transactions into Quota Details that specify how to increment or decrement the Quota State. A Promotion specifies the reward or commission that is received upon attaining a desired level of performance. Once a Quota State reaches a level necessary to receive a Commission or reward as set by a specific Promotion, a ledger item indicating the amount to be paid to a particular Sales Team is created. A user interface may be used to create Allocation Rules, Quotas, and Promotions that are awarded for performance over a specified time period. In this manner, a business may set up incentive plans and determine commissions easily and accurately.

66 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☐ 8. Document ID: US 6640249 B1

L9: Entry 8 of 34 File: USPT Oct 28, 2003

US-PAT-NO: 6640249
DOCUMENT-IDENTIFIER: US 6640249 B1
**** See image for Certificate of Correction ****

TITLE: Presentation services patterns in a netcentric environment

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/228; 719/315

ABSTRACT:

A system, method and article of manufacture are provided for implementing presentation services patterns. Non-presentation logic executed on a client is assigned to an activity for allowing reuse of the non-presentation logic across multiple, volatile user interfaces. A view is assigned to the activity. Validation rules are also structured for validating user data across the multiple user interfaces.

15 Claims, 195 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 123

☐ 9. Document ID: US 6625651 B1

L9: Entry 9 of 34 File: USPT Sep 23, 2003

US-PAT-NO: 6625651
DOCUMENT-IDENTIFIER: US 6625651 B1

TITLE: On-line transaction control during activation of local telecommunication service

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Swartz; Stephen J.	Maple Grove	MN		
Bakshi; Anil R.	Ridgewood	NJ		
Murphy; Christopher John	Minneapolis	MN		
Baeth; Kevin Ronald	New Hope	MN		

US-CL-CURRENT: 709/226; 707/10, 709/201, 709/217, 709/219, 709/224, 709/229, 713/200, 713/201

ABSTRACT:

A system, method and article of manufacture for the management of data during activation of local telecommunication service. More particularly to an on-line transaction controller that provides predetermined network information, the information residing in a storage medium. Requests are generated by one of a plurality of modules that are received by the controller. The requests provide transactional information. The transactional information is compared to the predetermined network information. The comparison bases decisions on the business rules. The transactional information is manipulated upon detection of a discrepancy relative to the predetermined network information.

34 Claims, 27 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27

☐ 10. Document ID: US 6606304 B1

L9: Entry 10 of 34 File: USPT Aug 12, 2003

US-PAT-NO: 6606304
DOCUMENT-IDENTIFIER: US 6606304 B1

TITLE: System for real-time monitor and response

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grinter; Richard C.	Arlington	TX		
Alvarez; David	Plano	TX		

US-CL-CURRENT: 370/252; 340/573.4, 370/386

ABSTRACT:

A data and object monitoring and response system comprising a three tier infrastructure for optimization of interoperability and task specific adaptability. The system gathers information from a plurality of distributed data gathering units and assimilates, processes, analyzes and distributes the gathered data within a common system with rule based data processing for coordinated response to the data. The data gatehring units can be locally distributed or widely disbursed. The information gathered can be real-time collection of event data, historical data, systems monitoring, or other data. Regardless of the specific nature of the data, the system taught in the present invention, addresses a number of common problems associated with the collection, assimilation, processing of data. By dividing the system into a three tier interactive structure, the data can be gathered, evaluated and processed independently and efficiently and appropriate response can be effectively implemented. The processing tier, which includes the rules for analysis of the data, exists independent of the operator interface and data gathering tiers. A wide diversity of data collection equipment can be accommodated without modification of the operator interface or the processing tier. Processing rules can be modified without altering the collection and handeling of data, and a commonality of data structure eliminates multiple polling of collected data sets.

8 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 11. Document ID: US 6510468 B1

L9: Entry 11 of 34 File: USPT Jan 21, 2003

US-PAT-NO: 6510468
DOCUMENT-IDENTIFIER: US 6510468 B1
**** See image for Certificate of Correction ****

TITLE: Adaptively transforming data from a first computer program for use in a second computer program

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Hayne; Mark N. San Jose CA

US-CL-CURRENT: 709/246; 715/501.1

ABSTRACT:

A system for transforming a mainframe application into corresponding web-based application is disclosed. A set of logic rules and data are extracted from the mainframe application. Link objects containing the set of logic rules and data are created. The link objects point to the rules and data in the mainframe application. The link objects are mapped to display regions defined by web-based application. Web pages are created to display the transformed mainframe application and a web-browser is used to display and navigate among the data in the mainframe application.

3 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 12. Document ID: US 6473760 B1

L9: Entry 12 of 34 File: USPT Oct 29, 2002

US-PAT-NO: 6473760
DOCUMENT-IDENTIFIER: US 6473760 B1

TITLE: Apparatus for printing information automatically combined from two different sources

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klatt; Cory	Edmonds	WA		
Krum; Brent	Redmond	WA		

US-CL-CURRENT: 707/10; 270/52.02, 707/200, 707/203, 707/205, 709/202

ABSTRACT:

Information stored in a corporate database is monitored and used to determine when certain business-related events have occurred. Event information is transmitted over the Internet to a print production facility, where it is used to fire one or more event rules, which in turn automatically generate print requisitions or print production orders. In one variation, print requisitions are routed through an existing and commercially available procurement system before a print production order is generated. The system can monitor and handle events from multiple corporations, each having its own business-related event rules, and each potentially having its own procurement approval system.

14 Claims, 15 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☑ 13. Document ID: US 6456986 B1

L9: Entry 13 of 34 File: USPT Sep 24, 2002

US-PAT-NO: 6456986
DOCUMENT-IDENTIFIER: US 6456986 B1

TITLE: Decision network based event pricing system in a component based, object oriented convergent customer care and billing system

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boardman; Stuart	Amsterdam			NL
Rubesam; Andreas	Meerbusch			DE

US-CL-CURRENT: 705/400; 379/111, 379/114.01, 379/114.03, 705/30, 705/34, 705/418

ABSTRACT:

A ratings engine system that uses decision networks to select and execute Price Plans to rate an Event. A plan selection rule set is used to select a Price Plan for the Event and an Algorithm rule set is used to select an Algorithm to rate the Event. The Price Plans and rule sets are stored in a database. Conditions are also evaluated as the rule sets are traversed and include a program that determines if an Event qualifies for the Condition. Conditions can have a range or domain of applicability. The changing of the decision network changes the business rules for the Event without changing the Algorithms or Conditions.

18 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☑ 14. Document ID: US 6453356 B1

L9: Entry 14 of 34 File: USPT Sep 17, 2002

US-PAT-NO: 6453356
DOCUMENT-IDENTIFIER: US 6453356 B1

TITLE: Data exchange system and method

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sheard; Nicolas C.	Palo Alto	CA		
Fischer; Larry J.	Campbell	CA		
Matthews; Richard W.	Redwood City	CA		
Himabindu; Gurla	Sunnyvale	CA		
Hu; Qilin	Mountain View	CA		
Zheng; Wendy J.	Cupertino	CA		
Mow; Boyle Y.	Freemont	CA		

US-CL-CURRENT: 709/231

ABSTRACT:

A system and method for exchanging data between two or more applications includes a data exchange engine and a number of adapters associated with a corresponding number of applications. Each of the adapters is customized to interface with a corresponding application and transforms data being transferred between the application and the data exchange engine. Data produced by a particular application is converted from a technology dependent form to a technology independent form by the corresponding adapter. In one embodiment, the format associated with a data stream is disassociated from the informational content of the data stream by the adapter. The informational content of the data stream is then transformed by the adapter into a common or generic format. The data exchange engine receives data in a technology independent form from each of its associated adapters and coordinates the routing of informational content to particular adapters associated with applications that have requested specific informational content. The adapters receiving the informational content from the data exchange engine transform the informational content having the common format into a data format compatible with, or specific to, their associated applications. A queuing mechanism is employed to construct a reliable asynchronous or pseudo-synchronous interface between disparate applications and systems. The data exchange engine may apply business rules or logic when processing a request for particular informational content. User-specified routing logic may be applied by the data exchange engine to dispatch selected informational content to one or more destination applications.

56 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

☐ 15. Document ID: US 6446076 B1

L9: Entry 15 of 34 File: USPT Sep 3, 2002

US-PAT-NO: 6446076
DOCUMENT-IDENTIFIER: US 6446076 B1

TITLE: Voice interactive web-based agent system responsive to a user location for prioritizing and formatting information

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burkey; Chad	Atherton	CA		
Lopatin; Sergei	Mountain View	CA		
Hughes; Lucian	Montara	CA		

US-CL-CURRENT: 707/102; 704/270, 709/229

ABSTRACT:

A system, method and article of manufacture for facilitating a user in, or creating for a user, a web-based active knowledge management system to facilitate an intelligent agent coordinator. The architecture facilitates delivery of information whenever and where ever a user requires the information in an appropriate format based on characteristics of the user at that instant. Personalization of information is also afforded by taking into account the history of user interactions with various applications and current real time situations, such a time and place, in order to create a plurality of unique user profile. Each unique profile can then be associated with a unique address, as well as being given restriction exclusive to that profile. Associations, such as business rules or databases, can also be related to each such profile. A fast and scalable information prioritization subsystem is also utilized to incorporate intelligent agents coordinator opinion, user preferences, and history of user interactions. In addition, speech recognition and speech synthesis are combined with intelligent agent animated representation and tactile input.

22 Claims, 27 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27

☐ 16. Document ID: US 6415277 B1

L9: Entry 16 of 34 File: USPT Jul 2, 2002

US-PAT-NO: 6415277
DOCUMENT-IDENTIFIER: US 6415277 B1

TITLE: Method of generating print production tasks using information extracted from enterprise databases

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klatt; Cory	Edmonds	WA		
Krum; Brent	Redmond	WA		

US-CL-CURRENT: 707/1; 700/233, 700/95, 707/10, 709/224

ABSTRACT:

Information stored in a corporate database is monitored and used to determine when certain business-related events have occurred. Event information is transmitted over the Internet to a print production facility, where it is used to fire one or more event rules, which in turn automatically generate print requisitions or print production orders. In one variation, print requisitions are routed through an existing and commercially available procurement system before a print production order is generated. The system can monitor and handle events from multiple corporations, each having its own business-related event rules, and each potentially having its own procurement approval system.

29 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

☑ 17. Document ID: US 6389588 B1

L9: Entry 17 of 34 File: USPT May 14, 2002

US-PAT-NO: 6389588
DOCUMENT-IDENTIFIER: US 6389588 B1

TITLE: Method and system of business rule extraction from existing applications for integration into new applications

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wadhwa; Vivek	Chapel Hill	NC		
Erlikh; Len	Brooklyn	NY		
Oara; Ioan M	Cary	NC		
Terekhov; Andrey N.	Sankt-Petersburg			RU
Bulyonkov; Mikhail	Morskoj			RU

US-CL-CURRENT: 717/106; 717/110

ABSTRACT:

A method of extracting and transforming a business rule which is a self contained section of legacy code focused on the computation of specific business policy includes identifying the business rule. Thereafter, the business rule code is located in the existing program and extracted in human readable code form. New code is generated for a new application for containing the business rule therein, and the new code is integrated into the new application. A system for extracting and transforming such business rules from existing programs such as legacy applications to a new application includes various components for achieving the various noted steps.

26 Claims, 4 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☑ 18. Document ID: US 6338069 B1

L9: Entry 18 of 34 File: USPT Jan 8, 2002

US-PAT-NO: 6338069
DOCUMENT-IDENTIFIER: US 6338069 B1

TITLE: Method and apparatus for managing functions

DATE-ISSUED: January 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ghatate; Bhalchandra	Austin	TX		

US-CL-CURRENT: 707/103R

ABSTRACT:

A method and apparatus for managing functions (e.g., that express business rules) to allow calling functions, maintaining functions, and providing of an execution framework for functions. In one embodiment, there are a number of functions to be maintained. An object technology infrastructure is formed to store data and metadata for the functions. For example, metadata about a function can include data describing what that function does, a "cost" associated with that function, how to execute that function, the input and output parameters required by that function. The exposure of the metadata regarding the functions' input and output parameters allows an engine to track input/output relationships between the functions and, in essence, define the order of execution.

46 Claims, 28 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☑ 19. Document ID: US 6330711 B1

L9: Entry 19 of 34 File: USPT Dec 11, 2001

US-PAT-NO: 6330711
DOCUMENT-IDENTIFIER: US 6330711 B1

TITLE: Method and apparatus for dynamic application and maintenance of programs

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutson; James	Austin	TX		

US-CL-CURRENT: 717/100

ABSTRACT:

A method and apparatus providing a data processing system for managing rules in a program in a Java operating system. The program is morphed such that the program becomes a dippable program. A rule change is identified for the program. A dip is created for the program, wherein the dip incorporates the rule change. The dip is added to the dippable program, wherein the rule change is incorporated into the dippable program. In the instance in which the program is not in a form suitable for morphing, an interface may be added to encapsulate the program and allow the program to be compatible with Java objects.

16 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 20. Document ID: US 6311194 B1

L9: Entry 20 of 34 File: USPT Oct 30, 2001

US-PAT-NO: 6311194
DOCUMENT-IDENTIFIER: US 6311194 B1

TITLE: System and method for creating a semantic web and its applications in browsing, searching, profiling, personalization and advertising

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sheth; Amit	Bogart	GA		
Avant; David	Bogart	GA		
Bertram; Clemens	Athens	GA		

US-CL-CURRENT: 715/505

ABSTRACT:

A system and method for creating a database of metadata (metabase) of a variety of digital media content, including TV and radio content delivered on Internet. This semantic-based method captures and enhances domain or subject specific metadata of digital media content, including the specific meaning and intended use of original content. To support semantics, a WorldModel is provided that includes specific domain knowledge, ontologies as well as a set of rules relevant to the original content. The metabase may also be dynamic in that it may track changes to the any variety of accessible content, including live and archival TV and radio

programming.

31 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 21. Document ID: US 6263498 B1

L9: Entry 21 of 34 File: USPT Jul 17, 2001

US-PAT-NO: 6263498
DOCUMENT-IDENTIFIER: US 6263498 B1

TITLE: Method and apparatus for enabling server side distributed object modification

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alcorn; John William	Austin	TX		
Johnson; Karl David	Round Rock	TX		

US-CL-CURRENT: 717/110; 717/120

ABSTRACT:

A method and apparatus in a distributed data processing system for managing application modification in a distributed data processing system. The first portion of an application is morphed, wherein the first portion of the application becomes a dippable application. The first portion of an application containing business rules is placed on a server within the distributed data processing system, wherein the application is accessed by a client. A second portion of the application is placed on a client, wherein the second portion of the application provides access to the first portion of the application. A rule change is identified for the dippable application. A dip is created for the dippable application, wherein the dip incorporates the rule change. The dip is added to the dippable application, wherein the rule change is incorporated into the dippable application without requiring a change to the second portion of the application located on the client.

15 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 22. Document ID: US 6263341 B1

L9: Entry 22 of 34 File: USPT Jul 17, 2001

US-PAT-NO: 6263341
DOCUMENT-IDENTIFIER: US 6263341 B1

TITLE: Information repository system and method including data objects and a relationship object

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smiley; Phillip L.	Plano	TX		

US-CL-CURRENT: 707/103R; 707/102

ABSTRACT:

A data model for an information repository (10) models data as objects (12), the relationships (14) or interdependencies between the data, their physical storage or access information (18) and rules or methods of accessing the data (16).

25 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☑ 23. Document ID: US 6249905 B1

L9: Entry 23 of 34 File: USPT Jun 19, 2001

US-PAT-NO: 6249905
DOCUMENT-IDENTIFIER: US 6249905 B1

TITLE: Computerized accounting system implemented in an object-oriented programming environment

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Kazuki	Tokyo			JP
Johnson; Ralph E.	Champaign	IL	61820	

US-CL-CURRENT: 717/100; 705/1, 715/744, 715/835, 717/121

ABSTRACT:

A computerized accounting system implemented using object-oriented programming techniques which permits construction of user-defined accounting or other business frameworks without modifying or recompiling the program code. A graphic user interface (GUI) is provided which enables a user to interact with the system to accomplish all required tasks, including designing and constructing the business

framework, as well as inputting and processing data using the designed framework. The system supports modular design of complex frameworks. It also allows the user to specify changes in business rules within a framework and tracks the changes over time.

25 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 23

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☑ 24. Document ID: US 6199047 B1

L9: Entry 24 of 34 File: USPT Mar 6, 2001

US-PAT-NO: 6199047
DOCUMENT-IDENTIFIER: US 6199047 B1

TITLE: Apparatus and method for an event rating engine

DATE-ISSUED: March 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimino; James	Arvad	CO		
Smith; Mitchell W.	Boulder	CO		
Bones; David	Boulder	CO		
Bell; Brigham	Boulder	CO		

US-CL-CURRENT: 705/10; 379/114.01

ABSTRACT:

An event rating engine can be configured for a particular task and is logically decoupled from a rating database when a usage event is rated. The rating engine obtains rating rules from a rating database. The rating database includes rating rules that include rating business rules by usage type along with rate tables containing the current rate values. A rating domain server is coupled to the rating database interface to the rating rules. A rating editor coupled to the rating domain server and provides an interface to the rating domain server. At initialization, the rating engine downloads a set of rating rules from the rating database and interprets the rating rules to form an independent and autonomous rating process that can rate a usage event while being logically decoupled from the rating database during the rating process.

17 Claims, 21 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☑ 25. Document ID: US 6148290 A

L9: Entry 25 of 34 File: USPT Nov 14, 2000

US-PAT-NO: 6148290
DOCUMENT-IDENTIFIER: US 6148290 A

TITLE: Service contract for managing service systems

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dan; Asit	Pleasantville	NY		
Parr; Francis Nicholas	Croton-on-Hudson	NY		

US-CL-CURRENT: 705/1; 705/8

ABSTRACT:

A service contract system for providing a service includes a communication network, a plurality of parties coupled to the communication network and a service contract specifying unambiguous rules of interaction for the parties during transactions for the service. A method for managing service transactions between a plurality of parties coupled to a communication network, includes the steps ofjointly developing a service contract having unambiguous rules of interaction between the plurality of parties regarding a service, registering the service contract in each of the plurality of parties and generating, from the service contract, enforcer modules consistent with the rules of interaction for managing transactions of the service.

35 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 26. Document ID: US 6070165 A

L9: Entry 26 of 34 File: USPT May 30, 2000

US-PAT-NO: 6070165
DOCUMENT-IDENTIFIER: US 6070165 A
**** See image for Certificate of Correction ****

TITLE: Method for managing and accessing relational data in a relational cache

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whitmore; Thomas John	Newton, Auckland			NZ

US-CL-CURRENT: 707/101

ABSTRACT:

For an object-based application being executed in a digital computing system a framework is provided for managing information retrieved from a structured database, such as a relational database. The processor is used to construct a single cohesive data structure, called a relational cache, that comprises all the row instances and that represents information retrieval from the structured database in a form suitable for use by one or more applications.

An application may have several of these relational caches active at any one time, some of which may represent separate user editing sessions, where each session may be saved or discarded independently. The framework ensures that only one copy of a row instance is in a given cache at any given time, even if several different queries return the same information from the database. Row instances within the relational cache may be modified by the application, where the row instances are marked as modified but not saved to the database at that time. The framework ensures all modified row instances within the cache are saved at one time, which are presented to the database as a single transaction, with individual rows ordered so as not to violate database referential integrity rules. Other properties of the framework are disclosed.

7 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☑ 27. Document ID: US 6067531 A

L9: Entry 27 of 34 File: USPT May 23, 2000

US-PAT-NO: 6067531
DOCUMENT-IDENTIFIER: US 6067531 A

TITLE: Automated contract negotiator/generation system and method

DATE-ISSUED: May 23, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoyt; Daniel M.	Manitou Springs	CO		
Lee; Robin M.	Colorado Springs	CO		
Lickiss; Alan L.	Colorado Springs	CO		

US-CL-CURRENT: 705/35

ABSTRACT:

A contract system automates negotiation and generation of contract documents by managing the work flow in a contract approval process. Multiple users, coupled by a computer network, access a contract database containing multiple contracts with multiple contract components therein. The system manages communications and

security between a client system and the contract database. A client applet facilitates user input at the client system and assists in a standardization of legal phrasing and contract negotiation. The client applet enforces business rules to qualify a contract for expedited approval. Generalized templates are employed to enable rapid prototyping and creation of new contracts. A method governs the automated contract negotiation and generation process within a business organization with assistance from a graphical user interface.

49 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 24

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 28. Document ID: US 5978811 A

L9: Entry 28 of 34 File: USPT Nov 2, 1999

US-PAT-NO: 5978811
DOCUMENT-IDENTIFIER: US 5978811 A

TITLE: Information repository system and method for modeling data

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smiley; Phillip L.	Plano	TX		

US-CL-CURRENT: 707/103R; 705/1, 707/1, 707/100, 707/102, 707/104.1

ABSTRACT:

A data model for an information repository (10) models data as objects (12), the relationships (14) or interdependencies between the data, their physical storage or access information (18) and rules or methods of accessing the data (16).

11 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 29. Document ID: US 5920870 A

L9: Entry 29 of 34 File: USPT Jul 6, 1999

US-PAT-NO: 5920870
DOCUMENT-IDENTIFIER: US 5920870 A

TITLE: Multi-layer abstraction bucket mechanism

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Briscoe; Roy A.	Haverhill	MA		
Burke; Robert J.	Northboro	MA		
Hanson; Thomas E.	Ashland	MA		
Holland; Paul	Natick	MA		
Moriarty; John M.	Nashua	NH		

US-CL-CURRENT: 707/103R; 707/104.1

ABSTRACT:

A multi-layer abstraction bucket mechanism connected between applications programs and at least one data source and providing to the users transformations of data and the results of processes performed on the data. The multi-layer abstraction bucket mechanism includes hierarchically connected abstraction layers, each including a methods object for storing methods for performing operations on data received from a data bucket of a hierarchically next lower abstraction layer, a data operation object for selecting a method to be executed by the method object, a data bucket for storing the results of an executed method, and a map for storing information for constructing the data bucket and for relating requests to methods residing in the methods object. The mechanism includes a data extraction layer and an abstraction layer. At least one abstraction layer is a data transformation layer while others include a data processing layer and a rules transformation layer for performing the rule based decision operations. At least one abstraction layer is an encaching layer while others are data transitory.

13 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

☑ 30. Document ID: US 5870719 A

L9: Entry 30 of 34 File: USPT Feb 9, 1999

US-PAT-NO: 5870719
DOCUMENT-IDENTIFIER: US 5870719 A

TITLE: Platform-independent, usage-independent, and access-independent distributed quote configuraton system

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maritzen; L.M.	Milpitas	CA		
Dimaandal; Rolando D.	Milpitas	CA		
Giannella; Julia	Saratoga	CA		

Arregui; Raul	Pacifica	CA
Moss; Marc	Fremont	CA

US-CL-CURRENT: 705/26; 700/90, 705/35, 709/203, 709/217, 709/219, 709/230, 715/733, 715/751

ABSTRACT:

A platform-independent, usage-independent, location-independent quote configuration system is described. The present invention, operating in a computer network, is a quote configurator comprising, 1) a client module, the client module having a platform-independent user interface for receiving quote input and command selections from a user, the quote input and command selections including product selection and selection of information indicative of business rules, and 2) a server coupled to the client module across the network, the server having access to quote data and business rules, the server including a platform-independent server interface configured to receive the quote input and command selections from the client module, the server validating the quote input based on the quote data and the business rules.

24 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☐ 31. Document ID: US 5754857 A

L9: Entry 31 of 34 File: USPT May 19, 1998

US-PAT-NO: 5754857
DOCUMENT-IDENTIFIER: US 5754857 A

TITLE: Distributed asynchronous workflow on the net

DATE-ISSUED: May 19, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gadol; Steven D.	Portola Valley	CA		

US-CL-CURRENT: 709/203; 709/226

ABSTRACT:

A system and method for automating workflow by distributing the tasks required for the execution of said workflow over servers and clients connected on a network. The disclosed system and method allow the stages of the workflow to be performed asynchronously, meaning that, once a workflow initiated by a user has been initiated by a database server, the stages of the workflow can be executed on respective network clients without further interaction with the server (i.e., without requiring a stateful connection between the clients and servers). This is accomplished through the use of a workflow courier that embodies all programs

(encompassing rules governing the execution of the workflow) and forms needed by clients to complete stages of the workflow. The workflow courier also stores workflow state information that indicates which stages of the workflow have been completed. The executable programs are written in the platform-independent Java programming language and are therefore executable on any computer that has an installed Java browser. After each stage is executed, the client executing that stage updates the workflow courier and transmits the updated workflow courier to a client having an associated user who is authorized to perform the next step in the workflow. The updated state information indicates to the recipient of the workflow which stages remain to be completed.

42 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☑ 32. Document ID: US 5745901 A

L9: Entry 32 of 34 File: USPT Apr 28, 1998

US-PAT-NO: 5745901
DOCUMENT-IDENTIFIER: US 5745901 A

TITLE: Workflow initiated by graphical symbols

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Entner; Diane T.	Fairfax	VA		
Wormington; Phyllis J.	Vienna	VA		
Lin; Chih Ru	Fairfax	VA		

US-CL-CURRENT: 707/103R; 704/1, 705/5, 707/10, 707/102

ABSTRACT:

A method for workflow processing of objects stored in the memory of a computer system in accordance with the invention includes storing an object, which is to be processed, in the memory of a computer system; reading the object, which is to be processed, from the memory, and adding a graphical symbol to the object; processing the graphical symbol with middleware; and in response to the processing of the graphical symbol with the middleware initiating actions to process the object in accordance with business rules; and wherein the graphical symbol is an object which, when interpreted by the middleware into a computer readable format, initiates an action resulting in the use of at least one tool to process the object with each tool performing a different operation on the object or at least one additional object event or changing at least one attribute of the object, based on business rules, with the rules being comprised of at least one of the set of controls or procedures under which a computer implemented business process is conducted.

24 Claims, 3 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 33. Document ID: US 5434791 A

L9: Entry 33 of 34 File: USPT Jul 18, 1995

US-PAT-NO: 5434791
DOCUMENT-IDENTIFIER: US 5434791 A

TITLE: Product structure management

DATE-ISSUED: July 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koko; Boma R.	Westminster	CA		
Stewart; Hugh	Cambridge			GB2

US-CL-CURRENT: 700/97

ABSTRACT:

An object-oriented method of using a computer to store a model of an imprecise structure of a product. The product's components are modeled as items and item revisions. Each item and item revision has a view, which may have view revisions. The method links view objects and view revision objects with occurrence references to each other and to view objects and view revision objects of other components. Context-specific view revisions are modeled as appearances. A user's request for a display of a product is received and used to invoke configuration rules that determine which view revisions) are part of the product. The correct view revisions are assembled with their occurrences and appearances.

23 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 34. Document ID: US 5404502 A

L9: Entry 34 of 34 File: USPT Apr 4, 1995

US-PAT-NO: 5404502
DOCUMENT-IDENTIFIER: US 5404502 A
**** See image for Certificate of Correction ****

TITLE: Error-detection in database update processes

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warner; Wes	Unionville			CA
Hope; Greg	North Vancouver			CA
Oeuvray; Paul	West Vancouver			CA

US-CL-CURRENT: 714/20; 707/202

ABSTRACT:

A technique for integrity error detection in a temporal transaction oriented database system. The database system has records and processing rules. Each record has an effective time. Each processing rule has a range of effective times. The record types include transaction records, master records, shadow master records and snapshot records. Each transaction record or snapshot record is related to one master record and each master record may have a plurality of related transaction and snapshot records. Each snapshot record is a copy of its related master record at a given effective time. On the insertion of one or more backdated transaction records or reversal of one or more existing transaction records the master record is recalculated by replaying from a prior snapshot forward, all processing rules and transaction records, having appropriate effective times. A shadow master record is recalculated by simultaneously repeating each of the steps of the replay on the shadow master record, but in this case ignoring any new backdated transactions and including any newly reversed transaction records. The comparison of the shadow master record after replay and the value of the master record before replay indicates the presence or absence of an integrity error.

10 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Terms	Documents
L7 NOT L8	34